State of California - Health and Human Services Agency

California Department of Public Health Center for Infectious Diseases Division of Communicable Disease Control Surveillance and Statistics Section MS 7306, P.O. Box 997377 Sacramento, CA 95899-7377

CDC NORS-WATERBORNE DISEASE OUTBREAK REPORT FORM

Recreational Water - Treated

Local ID Numb	per:
	same ID Number on preliminary and allow linkage to the same outbreak.
Report Status	(check one)
□Preliminary	□Final

This report form should only be used to report waterborne disease outbreaks associated with treated recreational water. To report outbreaks associated with other types of water, please go to http://www.cdph.ca.gov/pubsforms/forms/Pages/CD-Report-Forms.aspx#outbreak and complete the outbreak form for one of the other types of water:

- Recreational Water Untreated
- Water Intended for Drinking (Drinking Water)
- Water Not Intended for Drinking or Water of Unknown Intent

Please submit the completed report form to the Surveillance & Statistics Section by mail through your communicable disease reporting staff. Jurisdictions participating in CalREDIE should enter outbreak information directly into the CalREDIE forms.

If you have any questions, please contact IDB-SSS at IDB-SSS @cdph.ca.gov.

Note: This form includes only the pages from the complete NORS Waterborne Outbreak Report form that apply to outbreaks associated with treated recreational water; therefore pages 7 through 14 were omitted.



National Outbreak Reporting System



Waterborne Disease Transmission

This form is used to report waterborne disease outbreak investigations. This form has 6 parts, indicated by tabs at the top of each page. Part 1 asks for the minimum or basic information about the outbreak investigation. Part 2 asks for epidemiological data and clinical specimen test results. Parts 3, 4, 5 and 6 collect information about types of water exposure (treated recreational water, untreated recreational water, drinking water, and water not intended for drinking/unknown intent). Only 1 of these 4 water exposure parts should be completed for an outbreak investigation report.

CDC USE ONLY

CDC Report ID

State Report ID

Form Approved OMB No. 0920-0004

						_		
Gen	er	а	-	e	C	П	0	n

Primary Mode of Transmission (check one)

Food (Complete CDC 52.13)

Water (Complete tabs for General, Water-General and type

of water exposure)

Animal contact (Complete CDC 52.13)

Person-to-person (Complete CDC 52.13)

Environmental contamination other than food/water

(Complete CDC 52.13)

Indeterminate/Other/Unknown (Complete CDC 52.13)

Investigation Methods (check all that apply)

Interviews only of ill persons

Case-control study Cohort study

Food preparation review

Water system assessment: Drinking water

Water system assessment: Nonpotable water

Comments

Treated or untreated recreational water venue assessment Investigation at factory/production/treatment plant Investigation at original source (e.g., farm, water source, etc.) Food product or bottled water traceback Environment/food/water sample testing Other

Dates (mm/dd/yyyy)	
Date first case became ill (required)	Date last case became ill
Date of initial exposure	Date of last exposure
Date of report to CDC (other than this form)	
Date of notification to State/Territory or Local/Tribal Health Authorities	
Geographic Location	
Reporting state: Exposure occurred in multiple states Exposure occurred in a single state but cases resided in multiple state Other states:	es es
Reporting county: Exposure occurred in multiple counties in reporting state Exposure occurred in a single county but cases resided in multiple counties: Other counties:	1 0
City/Town/Place of exposure:	ames

Primary Cases						
Number of Primary Cases			Sex (estimate	ed percent o	f the prima	ry cases)
# Lab-confirmed cases			Mala			
# Probable cases			Male			
# Estimated total primary cases			Female			,
	# Cases	Total # of cases for whom info is available	Approximate p	percent of pri	mary cases	in each age grou
# Died			<1 year	%	20–49 yea	ars
# Hospitalized			1–4 years	%	50–74 yea	irs
# Visited Emergency Room			5–9 years	%	≥ 75 year	S
# Visited health care provider (excluding ER visits)			10-19 years	%	Unknown	

Incubation Period, Duration	on of Illness, Signs	or Symptoi	ms fo	r Primary C	ases only	,		
Incubation Period (select a	opropriate units)			Duration of	of Illness (among recovered case	es-select ap	propriate units)
Shortest		Min, Hours, D	Days	Shortest				n, Hours, Days
Median		Min, Hours, D	Days	Median			Mi	n, Hours, Days
Longest		Min, Hours, D	Days	Longest			Mi	n, Hours, Days
Total # of cases for whom info i	s available			Total # of cas	ses for whor	n info is available		
Unknown incubation period				Unknown o	duration of il	Iness		
Signs or Symptoms								
Feature		# Cases with	h signs	or symptoms		Total # cases for who	m into avail	able
Vomiting Diarrhea								
Bloody stools								
Fever								
Abdominal cramps								
HUS								
Asymptomatic								
Secondary Cases								
Mode of Secondary Transmission	(check one)			Number of Se	econdary Cas	es		
Food				# Lab-conf	irmed seco	ndary cases		
Water Animal contact				# Probable	secondary	cases		
Person-to-person				Estimated	total second	darv ill		
Environmental contamination Indeterminate/Other/Unknown		r	-					
Environmental Health Spe		annlia abla)		10tal # 01 C	ases (Prima	ary + Secondary)		
Environmental neath Spe	cialists Network (ii	аррисавіе)						
EHS-Net Evaluation ID: 1.) _		_ 2.)				3.)		
Traceback (for food and bottle	ed water only, not public	water)						
Please check if traceback c	onducted							
Source name	Source type		ation o	f source	Commer	ıts		
(If publicly available)	(e.g. poultry farm, tomato processing plant, bottled	Stat	te	Country				
	water factory)							
Recall								
Please check if any food or	bottled water product w	as recalled						
Type of item recalled:								
Comments:								
Reporting Agency								
Agency name:				E-mail:				
Contact name:				Contact title	e:			
Phone no.:				Fax no.: _				
Remarks Briefly describe impo	ortant aspects of the outb	reak not <u>cover</u>	red a <u>bo</u>	ve. Pl <u>ease indi</u>	cate <u>if any ac</u>	lverse ou <u>tcomes occurr</u>	red i <u>n speci</u> a	l populations
(e.g., pregnant wome	n, immunocompromised	persons)			,			

W	0							
	General							
Waterborne Disease and Type of Water Exposure (check		General						
Water intended for recreational purposes – treated venue (e.g., pool, spa/whirlpool/hot tub, spray pad)	Water intended recreational pur untreated venue freshwater lake, marine beach)	poses – e (e.g.,	(incl		d for drinki er used for ering)			ater of unknown cooling/industrial,
Geographic Location			Symp	toms			Route of En	try
Percent of primary cases living in	reporting state :	%		ch catego	ory, indica	te # of		
Associated Events					symptoms/			
AA7			condition		, ,		Ingestion	
Was exposure associated with a sp Yes No Un	becific event or gathe known	ring?	Respira condition	atory symp ons	otoms/		Contact	
If Yes, what type of event or gather	ing was involved?		Skin sy	mptoms/c	onditions		Inhalation	
			Ear syr	nptoms/co	onditions		Q.I.	.,
			Eye syr	mptoms/co	onditions		Other, spe	city:
If outbreak occurred during a define			Neurold condition Wound	ogic sympl ons infections	toms/		Unknown	
(mm/dd/yyyy)	(mm/de	d/yyyy)	I	specify (e. s A, leptos	-			
Epidemiologic Data								
Estimated total number of perso	ns with primary expo	sure:						
2. Were data collected from comparing the second of the se	• .		Yes (spec	ify in table	e below)	No		Unknown
shared by persons who v		Source	Yes			No		Unknown
Exposure (Vehicle/Setting) (e.g., pool—waterpark; hot spring; well water)	Total # # III Exposed (A) (B)	Total # Not Exposed	# III Not Exposed	Attack Rate (%) (B/A)	Odds Ratio	Relative Risk	p-Value (provide exact value)	95% Confidence Interval

_p.a.o									
1. Estimated total number of person	ns with prin	nary expo	sure:						
2. Were data collected from compa				Yes (spec	ify in table	e below)	No		Unknown
If No or Unknown , was water shared by persons who w		common	source	Yes			No		Unknown
Exposure (Vehicle/Setting) (e.g., pool—waterpark; hot spring; well water)	Total # Exposed (A)	# III Exposed (B)	Total # Not Exposed	# III Not Exposed	Attack Rate (%) (B/A)	Odds Ratio	Relative Risk	p-Value (provide exact value)	95% Confidence Interval
Attack rate for residents of repor	ting state:		%	Attack ra	ite for no	n-resident	s of report	ing state:	%
CDC 52.12 Rev. 03 2008			National O	utbreak Reporting System					CS115923 3

Water-General

Clinical Specimens - Laboratory Results (refer to the laboratory findings from the outbreak investigation)

		ecimens taken from		No (go to next tab) Unknown (go t	o next tab)	
Specimen Type*			Specimen Subtype**		Tested for § (lis	t all that apply)	
* Specimen Type: 1- Auto 8-Endotracheal Aspirate	ppsy Specimen (spe , 9-Saliva, 10-Serum	cify subtype), 2-Biopsy (s , 11-Skin Swab, 12-Sputun	pecify), 3-Blood, 4-Bronchial Alvon, 13-Stool, 14-Urine, 15-Vomitus,	eolar Lavage (BAL), 5-Ce 16-Wound Swab, 17-Unk	erebrospinal Fluid (CSF), 6-0 nown	Conjunctiva/Eye Swab, 7-B	Ear Swab,
** Specimen Subtype: 1	-Bladder, 2-Brain, 3-	Dura, 4-Hair, 5-Intestine, 6	-Kidney, 7-Liver, 8-Lung, 9-Nails,	10-Skin, 11-Stomach, 12-	Wound, 13-Other, 14-Unknow	vn	
-	•	ns, 3-Fungi, 4-Parasites, 5-					
Report the conf	irmed and/or	suspected etiologi	ical agent(s) in the table	e below			
Clinical Specimen Row Number	Genus/ Chemi	cal/ Toxin	Species	Serotype/ Serogr	oup/ Serovar	Genotype/ Subtype	1
1							
2							
3							
4							
Clinical Specimen Row Number	Confirmed as Etiology ?	Concentration (numerical value)	Unit	Specimen Type *		Specimen Subtype	**
1	Yes						
2	Yes						
3	Yes						
4	Yes						
Clinical Specimen Row Number	Test Type §					Total # People Tested	Total # People Positive
1							
2							
3							
4							
			pecify), 3-Blood, 4-Bronchial Alv , 13-Stool, 14-Urine, 15-Vomitus,			Conjunctiva/Eye Swab, 7-l	Ear Swab,
			-Kidney, 7-Liver, 8-Lung, 9-Nails, 1				
§ Test Type: 1-Culture, 2-6-Chemical Testing, 7-Tis			CR, RT-PCR), 3-Microscopy (e.g.,	fluorescent, EM), 4-Sero	logical/Immunological Test ((e.g., EIA, ELISA), 5-Phage	Typing,
Isolates							
State Lab Isolate II)	Specimen Profil	e 1 (e.g., the PFGE, MLVA sequence)	, or genotype	Specimen Profile 2 (e.g., the PFGE, MLVA method used)	A, or genotyping

Rec Water-Treated

Recreational Water	Vehicle D	escriptio	on				
Water Vehicle Number	Water Type (e.g., spa/v pool- swim	vhirlpool/hot	tub; pool- waterpark)	Water Subtype (select indoor, outdoor, ounknown)	r	Setting of Exposure (e.g., club, requiring me hotel/motel/lodge/inn; w	embership; vaterpark)
1							
2							
3							
Water Vehicle Number (reference the appropriate Water Vehicle Number)	Provided a (e.g., no tre	eatment; coa n; flocculatio	agulation;	Venue Treatment Subtyl (disinfection or pool filtra chlorine dioxide; bag filte unknown)	ation: e.g., UV;	Chlorination Subtype (chlorine disinfection or sodium hypochlorite; cy chlorine)	
Water Vehicle Number (reference the appropriate Water Vehicle Number)		c water sup	oly; sea water; ırface water;	IF PUBLIC WATER WAS TO FILL, USUAL Water Provided for Fill Water Coming to the Venue (e.g., no treatment; dising filtration (treatment plant)	Treatment Before nfection;	IF PUBLIC WATER WAS Fill Water Treatment S (disinfection or filtration dioxide; bag filter; cartri	ubtype : e.g., UV; chlorine
Recreational Water	· Quality						
Recreational Water		ocal recre	ational water q	uality regulations?	Yes No	o Unknown N	Not applicable
Did the venue mee		ocal recre	ational water q	uality regulations?	Yes No	o Unknown N	Not applicable
	t state or lo				Yes No		Not applicable
Did the venue mee If No , explain: Was there a pool training or certific	operator o	n the pay	roll with state-a		Yes No		Not applicable
Did the venue mee If No, explain: Was there a pool training or certific Laboratory Section Was water from tree	operator o ation?	n the pay	roll with state-a	approved from Treated Venues	Yes No		Not applicable Unknown
Did the venue mee If No, explain: Was there a pool training or certific Laboratory Section Was water from tre Results	operator o ation?	n the pay	roll with state-a iter Samples ater venues tes	approved from Treated Venues sted?	Yes No s Yes (specify i	n table below) No	Unknown
Did the venue mee If No, explain: Was there a pool training or certific Laboratory Section Was water from tree Results Sample Source of Sample	operator of ation? - Recrea	n the pay	roll with state-a	approved from Treated Venues	Yes No	o Unknown	
Did the venue mee If No, explain: Was there a pool training or certific Laboratory Section Was water from tree Results Sample Source of Sample (e.g., swimming pool, hot	operator of ation? - Recrea	n the pay	roll with state-a iter Samples ater venues tes	approved from Treated Venues sted?	Yes No s Yes (specify i	n table below) No	Unknown
Did the venue mee If No, explain: Was there a pool training or certific Laboratory Section Was water from tree Results Sample Source of Sample (e.g., swimming pool, hot Additional Description (e.g., time of day, backwa	operator of ation? - Recrea eated recrea	on the pay	roll with state-a iter Samples ater venues tes	approved from Treated Venues sted?	Yes No s Yes (specify i	n table below) No	Unknown
Did the venue mee If No, explain: Was there a pool training or certific Laboratory Section Was water from tree Results Sample Source of Sample Ye.g., swimming pool, hot Additional Description Ye.g., time of day, backwas Date (mm/dd/yyyy)	operator of ation? - Recrea eated recrea	on the pay	roll with state-a iter Samples ater venues tes	approved from Treated Venues sted?	Yes No s Yes (specify i	n table below) No	Unknown
Did the venue mee If No, explain: Was there a pool training or certific aboratory Section Was water from tree Results Sample Source of Sample e.g., swimming pool, hot Additional Description e.g., time of day, backwa Date (mm/dd/yyyy) Jolume Tested	operator of ation? - Recrea eated recrea	tional Wa ational wa	roll with state-a iter Samples ater venues tes	approved from Treated Venues sted?	Yes No s Yes (specify i	n table below) No	Unknown
Did the venue mee If No, explain: Was there a pool training or certific aboratory Section Was water from tree Results Sample Source of Sample ie.g., swimming pool, hot Additional Description ie.g., time of day, backwa Date (mm/dd/yyyy) Jolume Tested	operator of ation? - Recrea eated recrea	tional Wa	roll with state-a iter Samples ater venues tes	approved from Treated Venues sted?	Yes No s Yes (specify i	n table below) No	Unknown
Did the venue mee If No, explain: Was there a pool training or certific Laboratory Section Was water from tree Results Sample Source of Sample Ge.g., swimming pool, hot Additional Description Te.g., time of day, backwa Date (mm/dd/yyyy) Jolume Tested Residual/Free Disinfecta	operator of ation? - Recreated recr	tional Wa ational wa ational wa tc.)	roll with state-a iter Samples ater venues tes	approved from Treated Venues sted?	Yes No s Yes (specify i	n table below) No	Unknown
If No, explain: Was there a pool training or certific Laboratory Section Was water from tree Results Sample Source of Sample Ge.g., swimming pool, hot Additional Description Te.g., time of day, backwa Date (mm/dd/yyyy) Jolume Tested Temperature Residual/Free Disinfecta If total and combined dis	operator of ation? - Recreated recr	tional Wa ational wa ational wa tc.) Number Unit Number Unit	roll with state-a iter Samples ater venues tes	approved from Treated Venues sted?	Yes No s Yes (specify i	n table below) No	Unknown
If No, explain: Was there a pool training or certific Laboratory Section Was water from tree Results Sample Source of Sample (e.g., swimming pool, hot Additional Description (e.g., time of day, backwa) Date (mm/dd/yyyy) Volume Tested Temperature Residual/Free Disinfecta (if total and combined dislevels given, total - combi	operator of ation? - Recreated recr	tional Wa ational wa ational wa tc.) Number Unit Number Unit Number	roll with state-a iter Samples ater venues tes	approved from Treated Venues sted?	Yes No s Yes (specify i	n table below) No	Unknown
Did the venue mee If No , explain: Was there a pool training or certific Laboratory Section	operator of ation? - Recreated recr	tional Wational watio	roll with state-a iter Samples ater venues tes	approved from Treated Venues sted?	Yes No s Yes (specify i	n table below) No	Unknown

Microb	Microbiology or Chemical/Toxin Analysis (refer to the laboratory findings from the outbreak investigation)												
Sample Number	Genus/ Chemical/ Toxin	Species	Serotype/ Serogroup/ Serovar	Genotype/ Subtype	PFGE Pattern								
Sample Number	Test Results Positive?	Concentration (numerical value)	Unit	Test Type*	Test Method (reference: National Environmental Methods Index: http://www.nemi.gov)								
	Yes												
	Yes												
	Yes												

Factors	(check all that apply)**	Documented/ Observed***	Suspected***
Exc	ceeded maximum bather load		
Pri	mary intended use of water is by diaper/toddler-aged children (e.g., kiddie pool)		
He	avy use by child care center groups		
He Fed Pat	cal/vomitus accident		
Pat	trons continued to swim when ill with diarrhea		
Op	erator error		
Inte	entional contamination (explain in remarks)		
Co	mbined pool filtration/recirculation systems led to cross-contamination		
≥ Hy	giene facilities (e.g., toilets, diaper changing facilities) inadequate or distant me spray feature water bypasses filtration/treatment system and returns to feature unfiltered/untreated supplemental disinfection installed that would have inactivated pathogen (e.g., <i>Cryptosporidium</i>)		
So	me spray feature water bypasses filtration/treatment system and returns to feature unfiltered/untreated		
No.	supplemental disinfection installed that would have inactivated pathogen (e.g., Cryptosporidium)		
-Wa	tter temperature ≥30°C (≥86°F)		
	oss-connection with wastewater or non-potable water		
Dis	infectant control system malfunctioning, inadequate, or lacking (e.g., hand feed chemicals)		
	orrect settings on disinfectant control system		
рH	control system malfunctioning, inadequate, or lacking (e.g., hand feed chemicals)		
	orrect settings on pH control system		
Filt	ration system malfunctioning or inadequate (e.g., low flow rate)	П	
Su	pplemental disinfection system malfunctioning or inadequate (e.g., ultraviolet light, ozone)	П	i i
	ufficient system checks so breakdown detection delayed	n	П
No	preventive equipment maintenance programs to reduce breakdowns	П	
No Ver Ch Ma	ntilation insufficient for indoor aquatic facilities		
Ch	emical handling error (e.g., chemical hookup, improper mixing or application)	П	
Ma	intenance chemicals not flushed from system before opening to swimmers		
Re	circulation pump off or restarted with swimmers in water		
Ιοι	w or zero water flow combined with continuous feed of chemicals resulted in excess chemicals in water	П	
	ensive slime/biofilm formation	Ä	Ä
	cent construction		
	anurate level excessive	П	
	ck of draining/cleaning		
	gnant water in spa piping was aerosolized		
	aquatics operators on payroll who have completed state/local training		
Un	trained/inadequately trained staff on duty		
	mote monitoring system replaces on-site water quality testing	П	
	clear communication chain for reporting problems		
Un Ina Em No No No	dequate water quality monitoring (e.g., inadequate test kit, inadequate testing frequency)	П	
Fr	ployee illness policies absent or not enforced	П	
AG I	or inadequate policies on good chemical handling and storage practices	П	
A NO	operator on duty at the time of incident		
E 100	operator on duty at the time of incident		
	shock/hyperchlorination policy		
140	ner, specify:	П	

Remarks

^{**} Only check off what was found during investigation.

***The release of sewage does not have to occur at the property/venue/setting where the people were exposed. The sewage may have occurred at a distant site but still affected the property/venue/setting in question.